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# NOTICE OF ALLOWANCE AND FEE(S) DUE

27810

7590

07/06/2009

ExxonMobil Research & Engineering Company P.O. Box 900 1545 Route 22 East Annandale, NJ 08801-0900 EXAMINER

ROBINSON, RENEE E

ART UNIT PAPER NUMBER

1797

DATE MAILED: 07/06/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,796	11/06/2006	Dean C. Draemel	P2003J077-WO	6557

TITLE OF INVENTION: FCC FEED INJECTION ZONE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/06/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

	ENCE ADDRESS (Note: Use B	F	ee(s) Transmittal. Th	is certifi	cate cannot be used f	or domestic mailings of the for any other accompanying ent or formal drawing, must	
ExxonMobil Research & Engineering Company P.O. Box 900 1545 Route 22 East Annandale, NJ 08801-0900			S	Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
			ſ				(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTOR	RNEY DOCKET NO.	CONFIRMATION NO.
10/574,796	11/06/2006	•	Dean C. Draemel		P2	2003J077-WO	6557
TITLE OF INVENTION	i: FCC FEED INJECTIC	ON ZONE					
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	10/06/2009
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ROBINSON	I, RENEE E	1797	208-106000				
☐ "Fee Address" ind		registered attorney of 2 registered patent a listed, no name will	of a single firm (having as a member a orney or agent) and the names of up to patent attorneys or agents. If no name is ne will be printed.				
recordation as set fort (A) NAME OF ASSI	h in 37 CFR 3.11. Com GNEE	pletion of this form is NO	T a substitute for filing (B) RESIDENCE: (CI	an assignment. ΓΥ and STATE OR (	COUNTI	RY)	ocument has been filed for our control of the contr
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			b. Payment of Fee(s): (P     A check is enclosed     Payment by credit     The Director is here     overpayment, to De	d. card. Form PTO-203 by authorized to cha	8 is attac	ched. equired fee(s), any de	
5. Change in Entity Sta	*						
1.1	s SMALL ENTITY state		b. Applicant is no l				FR 1.27(g)(2). he assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademark	COffice.	ii tiic applicant, a reg	istered a	ttorney or agent, or ti	ne assignee of other party in
Authorized Signature				Date			
Typed or printed name				Registration 1	No		
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	d application form to the ions for reducing this bu <sup>7</sup> irginia 22313-1450. DO	CFR 1.311. The informatic 5 U.S.C. 122 and 37 CFR 5 USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain on the collection is the depending upon the influence of the complete	or retain a benefit by estimated to take 12 dividual case. Any c icer, U.S. Patent and TO THIS ADDRES	the publi minutes omments Tradem S. SEND	to which is to file (and to complete, including on the amount of tients ark Office, U.S. Deporto: Commissioner	d by the USPTO to processing gathering, preparing, and me you require to complete artment of Commerce, P.O for Patents, P.O. Box 1450.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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27810 75	90 07/06/2009	EXAMINER		
ExxonMobil Res	earch & Engineering	ROBINSON, RENEE E		
P.O. Box 900		ART UNIT PAPER I		
1545 Route 22 Eas Annandale, NJ 088	=	1797 DATE MAILED: 07/06/2009		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 282 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 282 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
Notice of Allowability	10/574,796 <b>Examiner</b>	DRAEMEL ET AL. Art Unit					
, iones et , inem alemy	Lammer	Artonic					
	RENEE ROBINSON	1797					
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje	application. If not included ation will be mailed in due course. <b>THIS</b>					
1. 🔀 This communication is responsive to the amendment filed of	<u>on 17 March 2009</u> .						
2. 🔀 The allowed claim(s) is/are <u>1-8 and 10</u> .							
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>	been received.						
2. Certified copies of the priority documents have	• •						
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in t	his national stage application from the					
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.						
INFORMAL PATENT APPLICATION (PTO-152) which give							
	5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.						
(a) I including changes required by the Notice of Draftspers	- ·	TO-948) attached					
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>							
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the							
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	al Patent Application					
<ol> <li>□ Notice of References Cited (PTO-692)</li> <li>□ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	6. ☐ Interview Summ						
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail 7.	Date					
Paper No./Mail Date4. ☐ Examiner's Comment Regarding Requirement for Deposit	<u></u>	ement of Reasons for Allowance					
of Biological Material	9.						

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### **DETAILED ACTION**

### Response to Amendment

- 1. Amendments to claims 1, 3-8 and 10 and cancellation of claim 9 are noted.
- 2. Objections to the Specification and claim 8 are withdrawn.
- 3. Rejection of claims 1-10 under 35 U.S.C. 112, second paragraph, is withdrawn.

### Allowable Subject Matter

- 4. Claims 1-8 and 10 are allowed.
- 5. The following is an examiner's statement of reasons for allowance: the prior art of record does not disclose or suggest a method for mixing fluidized particles with a hydrocarbon feedstream in a fluid catalytic cracker comprising a particle conduit and a feed injection zone conduit, wherein the feed injection conduit is non-circular and wherein the feed injection conduit and particle conduit have a substantially equal cross-sectional area. Specifically, the prior art of record does not teach or render obvious that the particle conduit and the non-circular conduit have a substantially equal cross-sectional area.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Gartside et al (US 4,820,494).

- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RENEE ROBINSON whose telephone number is (571)270-7371. The examiner can normally be reached on Monday through Thursday 7:30-5:00.
- 9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Griffin can be reached on (571)272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. R./ Examiner, Art Unit 1797 /Walter D. Griffin/ Supervisory Patent Examiner, Art Unit 1797 Application/Control Number: 10/574,796

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